

INTERNATIONAL SEARCH REPORT

International Application No
PCT/EP2004/004586

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 F16L37/092 F16L33/22

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 F16L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used).

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 87/05087 A (GOBBI GIANFRANCO) 27 August 1987 (1987-08-27)	1, 4-7
Y	page 2, line 17 - page 5, line 16; figures -----	2, 3
Y	US 5 125 694 A (GOBBI GIANFRANCO) 30 June 1992 (1992-06-30) column 3, line 36 - line 43; figures -----	2
Y	EP 1 143 185 A (CAMOZZI S P A) 10 October 2001 (2001-10-10) cited in the application column 4, line 14 - line 18; figures 2,3 -----	3
A	US 5 549 865 A (GUEST JOHN D) 27 August 1996 (1996-08-27) figures 9-15 -----	1, 2, 4, 6, 7 -----

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

29 October 2004

Date of mailing of the international search report

04 NOV 2004

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C (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2 165 604 A (GUEST JOHN LTD) 16 April 1986 (1986-04-16) page 1, line 99 – line 123; figure 1 -----	8-13

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see supplemental box

1. As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

3. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

The additional search fees were accompanied by the applicant's protest.



No protest accompanied the payment of additional search fees.

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The International Searching Authority has determined that this international application contains multiple (groups of) inventions, namely:

1. Claims: 1-7

Releasing a plug-in connection.

2. Claims: 8-13

Tightness of a connection unit.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP2004/004586

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 8705087	A	27-08-1987	IT AT AU EP WO	208921 Z2 57754 T 7028487 A 0256108 A1 8705087 A1		28-05-1988 15-11-1990 09-09-1987 24-02-1988 27-08-1987
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GB 2165604	A	16-04-1986	NONE			